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PAR 246A

Photographic Enlarger Maintenance

FY70

20 June 1969

PROJECT AUTHORIZATION REQUEST

PAR 249A 20 Jun 69

SUBJECT: Photographic Enlarger Maintenance

TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's facility for two Precision Enlargers (BPE) and four 10-20-40X Enlargers.

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PROPOSAL

- 2. It is proposed that the schedules for monthly, two-monthly and six-monthly preventive maintenance currently in effect on enlargers be continued for 12 months beginning 1 July 1969. Contractor personnel will perform such maintenance on the one BPE and the four 10-20-40X Enlargers currently at the customer's facility. An additional BPE is scheduled for installation there in the Fall of 1969; it will be added to the preventive maintenance schedule at that time. The check lists used for preventive maintenance are attached. Daily and weekly internal maintenance items on the BPE check list are not considered part of the proposed effort.
- 3. If the customer so requests, contractor personnel will investigate problem areas not indicated on the Preventive Maintenance Check Lists and make necessary minor modifications/adjustments.
- 4. If approved, this project will become active on 30 June 1969, and will continue for 12 months unless, prior to that time, funds are exhausted or the PAR is terminated.
- 5. No final report will be submitted. The periodic effort described above will be documented in Monthly and Quarterly Reports.

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

1	PRECISION	ENLARGER

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Item	Description	✓	Item	Description
	Daily Interval			One-Month Interval
1	Check the four indicator lamps on the sub-control panel.		1	Wax the steel rails of the lens ra and of the easel.
2.1	Check closed-negative-gate interlock.	-	2	Install new air filter in lamphous
2.2	Check interlock that causes vertical transport slow speed.	†	3	Clean the nylon brushes of the fluremoval system.
2.3	Check interlock that disables negative transport after fluid injection.		4	Check all tubing and hoses for cra and air leakage.
2.4	Check operation of microswitch that functions when manual-film-movement knob is pushed in.		5	Check and, if necessary, clean the lenses of the condenser lens assemblies.
3.1	Check the indicator lamps for the two attenuator banks of the easel photometer.	-		Six-Month Interval
3.2	Check the meter scale illuminator lamp of the easel photometer.	Γ	ı	
3.3	Check the antifatigue lamp in photomultiplier tube housing.		1.1	Make a photographic check on all s matching sets of objective and condenser lens assemblies.
4	Clean the glass plates of the negative gate.		1.2	Be sure that film is tracking proper in both directions on the negative
	One-Week Interval		2	Check the timing belts of the film
1	Vacuum-clean the enlarger.			transport system, of the vertical drive system, and of the easel drive
2	Check, and if necessary, clean the objective lenses and all glass filters.		<u> </u>	assembly for wear.
3	Vacuum-clean the front surface of the easel.			
4	Check the fiber optics for broken fibers.			
EMARKS:				

Checked by: ____

20 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

As s igned	1 To: _		 		
Date: _			 	·	
Machine	Serial	No.			

1	Item	Description	~	Item	Description
	1	Film Transport		8	Vacuum Pump Assembly
	1.1	Static Removal Unit		8.1	Hoses and Couplings
	1.2	Guide Roller Flanges		8.2	Pump
	1.3	Air Knives		8.3	Oil Level
	1.4	Belts and Pulleys		9	Lamp House Assembly
	1.5	Lubricate Bearings		9.1	Housing
	2	Easel and Stencil Assembly		-9.2	Filter (Photographic)
	2.1	Easel		9.3	Light Leaks
	2,2	Air Pressure System		9.4	Lamp House Blower
	3	Illuminator		10	Immersion System
T	3.1	Glass		10.1	Ejectors
	3.2	Lamps		10.2	Hoses and Couplings
Ì	}	Negative Gate Interlock		10.3	Blower
	5	Lenses		10.4	Fluid Level
(6	Stripper Plate		11.	Lamp House Control
	7	Air Pressure System		12	Analyzer
	7.1	Air Lines		13	Photo Check
	7.2	Compressor Control		13.1	Resolution
	_ 7•3	Relief Valve		13.2	Uniformity
	7.4	Regulator		14	General Inspection
	7. 5	Filter-Compressor			
T	7.6	Drain Storage Tank	Ī		Initials

Form No. MS-103 March 26, 1966